

CLAIMS:

1. Device for recording information in blocks having logical addresses, which device comprises

- recording means (22) for recording marks in a track on a record carrier representing the information,
- 5 - control means (20) for controlling the recording by locating each block at a physical address in the track, the control means comprising
- addressing means (31) for translating the logical addresses into the physical addresses and vice versa in dependence of defect management information,
- defect management means (32) for detecting defects and maintaining the defect
- 10 management information in defect management areas on the record carrier, the defect management information including assignment information

indicative of assignment of physical addresses in first parts of the track to at least one user data area, and assignment of physical addresses in second parts of the track to defect management areas, and the defect management information including remapping information indicative for translating a logical address initially mapped to a physical address exhibiting a defect to an alternate physical address in a defect management area, and

- 15 - assignment means (34) for adapting the assignment information in dependence of a detected defect by assigning an additional physical address range to an additional defect management area, the additional physical address range having a starting
- 20 physical address near the detected defect.

2. Device as claimed in claim 1, wherein the assignment means (34) are for assigning the additional physical address range including the detected defect.

25 3. Device as claimed in claim 1, wherein the assignment means (34) are for assigning the additional physical address range having a predefined size, or a size based on defect parameters of a preceding or following recording area, in particular the amount and distribution of defect management areas already assigned, the amount of user area between

the additional physical address range and a preceding or following defect management area, and/or detected defects.

4. Device as claimed in claim 1, wherein the assignment means (34) are for
5 assigning the additional physical address range having a size including at least a first detected defect, a second detected defect and the physical addresses between the first and second detected defect.

5. Device as claimed in claim 1, wherein the assignment means (34) are for
10 assigning the additional physical address range to a range of physical address in a part of the track originally assigned to the at least one user data area, in particular the part of the track being a free space in the user data area.

6. Device as claimed in claim 1, wherein the device comprises contiguous recording detection means (33) for detecting a series of blocks having a continuous logical address range to be recorded in a corresponding allocated physical address range, and
15 the assignment means (34) are for assigning the additional physical address range outside the allocated physical address range.

20 7. Device as claimed in claim 6, wherein the contiguous recording detection means (33) are for detecting a continuous recordings indicator in a recording command, or for detecting the series of blocks representing real-time information, in particular video information, or for detecting file system information for detecting that the series of blocks constitute a file.

25 8. Method of recording of information in blocks having logical addresses located at a physical address in a track on a record carrier,
- the logical addresses corresponding to physical addresses in dependence of defect management information,
30 - defects being detected and the defect management information being maintained in defect management areas on the record carrier, and
- the defect management information including assignment information indicative of assignment of physical addresses in first parts of the track to at least one user data area, and assignment of physical addresses in second parts of the track to defect

management areas, and the defect management information including remapping information indicative for translating a logical address initially mapped to a physical address exhibiting a defect to an alternate physical address in a defect management area,

5 the method comprising

- adapting the assignment information in dependence of a detected defect by assigning an additional physical address range to an additional defect management area, the additional physical address range having a starting physical address near the detected defect.

10

9. Computer program product for recording of information, which program is operative to cause a processor to perform the method as claimed in claim 8.